

SEP 16 2003

TECH CENTER 10



1600

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/942,583A

DATE: 09/12/2003
TIME: 13:44:28

Input Set : A:\substitute Seq_list 1581_0840001.txt
Output Set: N:\CRF4\09122003\I942583A.raw

5 <110> APPLICANT: Robinson, Andrew
6 Gorringe, Andrew
7 Hudson, Michael
8 Bracegirdle, Phillipa
9 Kroll, John
10 Cartwright, Keith
11 Webb, Steven
12 Langford, Paul
13 Reddin, Karen
14 O'Dwyer, Cliona
16 <120> TITLE OF INVENTION: Neisserial Vaccine Compositions and Methods
18 <130> FILE REFERENCE: 1581.0840001
20 <140> CURRENT APPLICATION NUMBER: US 09/942,583A
21 <141> CURRENT FILING DATE: 2001-08-31
23 <150> PRIOR APPLICATION NUMBER: PCT/GB00/00624
24 <151> PRIOR FILING DATE: 2000-02-22
26 <160> NUMBER OF SEQ ID NOS: 16
28 <170> SOFTWARE: PatentIn version 3.0
31 <210> SEQ ID NO: 1
32 <211> LENGTH: 19
33 <212> TYPE: DNA
34 <213> ORGANISM: Unknown
36 <220> FEATURE:
37 <223> OTHER INFORMATION: PCR primer
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40 gcagtctctc gagctcaag 19
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44 <211> LENGTH: 19 ,
45 <212> TYPE: DNA
46 <213> ORGANISM: Unknown
48 <220> FEATURE:
49 <223> OTHER INFORMATION: PCR Primer
51 <400> SEQUENCE: 2
52 cctctccact gagagaaaa 19
55 <210> SEQ ID NO: 3
56 <211> LENGTH: 17
57 <212> TYPE: DNA
58 <213> ORGANISM: Unknown
60 <220> FEATURE:
61 <223> OTHER INFORMATION: PCR Primer
63 <400> SEQUENCE: 3
64 gtaaaacgac ggccagt 17
67 <210> SEQ ID NO: 4

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68 <211> LENGTH: 17
69 <212> TYPE: DNA
70 <213> ORGANISM: Unknown
72 <220> FEATURE:
73 <223> OTHER INFORMATION: PCR Primer
75 <400> SEQUENCE: 4
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79 <210> SEQ ID NO: 5
80 <211> LENGTH: 19
81 <212> TYPE: DNA
82 <213> ORGANISM: Unknown
84 <220> FEATURE:
85 <223> OTHER INFORMATION: Sequencing Primer
87 <400> SEQUENCE: 5
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91 <210> SEQ ID NO: 6
92 <211> LENGTH: 22
93 <212> TYPE: DNA
94 <213> ORGANISM: Unknown
96 <220> FEATURE:
97 <223> OTHER INFORMATION: Sequencing Primer
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100 cgctttacac tttatgcttc cg 22
103 <210> SEQ ID NO: 7
104 <211> LENGTH: 17
105 <212> TYPE: DNA
106 <213> ORGANISM: Unknown
108 <220> FEATURE:
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112 gtaaaacgac ggccagt 17
115 <210> SEQ ID NO: 8
116 <211> LENGTH: 17
117 <212> TYPE: DNA
118 <213> ORGANISM: Unknown
120 <220> FEATURE:
121 <223> OTHER INFORMATION: Sequencing Primer
123 <400> SEQUENCE: 8
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127 <210> SEQ ID NO: 9
128 <211> LENGTH: 76
129 <212> TYPE: DNA
130 <213> ORGANISM: Unknown
132 <220> FEATURE:
133 <223> OTHER INFORMATION: Linker Sequence
135 <220> FEATURE:
136 <221> NAME/KEY: misc_feature
137 <222> LOCATION: (1)..(5)
138 <223> OTHER INFORMATION: Bam HI restriction site

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140 <220> FEATURE:
141 <221> NAME/KEY: misc_feature
142 <222> LOCATION: (75)..(76)
143 <223> OTHER INFORMATION: XbaI restriction site
145 <220> FEATURE:
146 <221> NAME/KEY: misc_feature
147 <222> LOCATION: (8)..(15)
148 <223> OTHER INFORMATION: NotI restriction site
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151 <221> NAME/KEY: misc_feature
152 <222> LOCATION: (16)..(21)
153 <223> OTHER INFORMATION: SnaBI restriction site
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156 <221> NAME/KEY: misc_feature
157 <222> LOCATION: (22)..(33)
158 <223> OTHER INFORMATION: NcoI restriction site
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161 <221> NAME/KEY: misc_feature
162 <222> LOCATION: (34)..(39)
163 <223> OTHER INFORMATION: SmaI restriction site
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167 <222> LOCATION: (46)..(51)
168 <223> OTHER INFORMATION: PstI restriction site
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171 <221> NAME/KEY: misc_feature
172 <222> LOCATION: (52)..(75)
173 <223> OTHER INFORMATION: neisserial uptake sequence
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177 atcatttcaag acggct 76
181 <210> SEQ ID NO: 10
182 <211> LENGTH: 77
183 <212> TYPE: DNA
184 <213> ORGANISM: Unknown
186 <220> FEATURE:
187 <223> OTHER INFORMATION: Complimentary Sequence to SEQ ID NO: 9
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190 cttagagccgt ctgaaaatgat tcagacggcc tgca gctgga ccccgccag ctcccatgg 60
191 acgtacggc cgccgg 77
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196 <211> LENGTH: 20
197 <212> TYPE: DNA
198 <213> ORGANISM: Unknown
200 <220> FEATURE:
201 <223> OTHER INFORMATION: Artificial sequence, alternative 5' end
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204 tttttggaga attgaccatg 20
207 <210> SEQ ID NO: 12

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208 <211> LENGTH: 591
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 210 <213> ORGANISM: Unknown
 212 <220> FEATURE:
 213 <223> OTHER INFORMATION: Artificial Sequence Comprising Expression Cassette of nspA
 215 <400> SEQUENCE: 12
 216 tgaccataaa ggaaccaaaa tatgaaaaaaaaa gcacttgcca cactgattgc cctcgctctc 60
 218 ccggccgcgc cactggcgga aggcgcatcc ttacgtcca agccgatgcc gcacacgcaa 120
 220 aagcctcaag ctcttaggt tctgccaaag gcttcagccc ggcgcattcc gcaggctacc 180
 222 gcatcaacga cctccgcttc gccgtcgatt acacgcgcta caaaaaactat aaagccccat 240
 224 ccaccgattt caaactttac agcatcgcg cggtccgcatt ttacgacttc gacacccaat 300
 226 cggccgtcaa accgttatctc ggcgcgcgc tgagcctcaa ccgcgcctcc gtcgacttgg 360
 228 gcggcagcga cagttcagc caaaccttca tcggcctcg cgtatttgcg ggcgtaagct 420
 230 atgcccgttac cccgaatgtc gatttggatg ccggctaccg ctacaactac atcggcaaag 480
 232 tcaacactgt caaaaacgtc cggtccgcgc aactgtccgt cggcgtgcgc gtcaaattct 540
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 239 <211> LENGTH: 138
 240 <212> TYPE: DNA
 241 <213> ORGANISM: Unknown
 243 <220> FEATURE:
 244 <223> OTHER INFORMATION: pMIDG100 partial sequence
 246 <400> SEQUENCE: 13
 247 actagtaacc gagccgcct aatgagcgaa cttttttttt cagtctctcg agctcaagct 60
 249 tcgaattctg cagtcgacgg taccgcgggc ccgggatccg ctagcagttt taagatttt 120
 251 ggagaattga ccatgagt 138
 254 <210> SEQ ID NO: 14
 255 <211> LENGTH: 48
 256 <212> TYPE: DNA
 257 <213> ORGANISM: Unknown
 259 <220> FEATURE:
 260 <223> OTHER INFORMATION: pMIDG100 partial sequence
 262 <400> SEQUENCE: 14
 263 tagcatttagt agccgcctaa tgagcggtt ttttttttgc gttctaga 48
 266 <210> SEQ ID NO: 15
 267 <211> LENGTH: 68
 268 <212> TYPE: DNA
 269 <213> ORGANISM: Unknown
 271 <220> FEATURE:
 272 <223> OTHER INFORMATION: pMIDG201 partial sequence
 274 <400> SEQUENCE: 15
 275 actagtaacc gagccgcct aatgagcgaa cttttttttt cagtctctcg agctcaagct 60
 277 tcgaattc 68
 280 <210> SEQ ID NO: 16
 281 <211> LENGTH: 83
 282 <212> TYPE: DNA
 283 <213> ORGANISM: Unknown
 285 <220> FEATURE:
 286 <223> OTHER INFORMATION: pMIDG201 partial sequence

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288 <400> SEQUENCE: 16
289 ggatccccgc ggccggctac gtaccatggg agctgcccgg ggtccagctg caggctgtct 60
291 gaatcatttc agacggctct aga 83

VERIFICATION SUMMARY

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